KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054.
Tel.: 23378383, 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No. : KTH/C.AGG/018-0027/2014-2015 **Date: 07.04.2014**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Providing BS slab drain & Metalling in Chinnamma layout.

Name of Contractor* : Mr. B.T. Ravikumar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 03.04.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample confirms to Single size of IS: Stipulation of 40mm size Aggregate.
2	40	85.28	85 to 100	95 to 100	
3	20	0.03	0 to 20	30 to 70	
4	12.5	-	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	11.6	Not specified
2	Elongation Index (%)	40	14.3	Not specified
3	Impact Value (%)	40	24.8	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

AE(2)

(SREENIVASA.C.)
TECHNICAL MANAGER

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Report No. : KTH/C.AGG/018-0027/2014-2015 **Date: 07.04.2014**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Providing BS slab drain & Metalling in Chinnamma layout.

Name of Contractor* : Mr. B.T. Ravikumar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 03.04.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 20mm

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	40	100	100	100	Sample doesn't confirms to IS: Stipulation of 20mm size Aggregate.
2	20	50.26	85 to 100	95 to 100	
3	16	4.94	-	-	
4	10	0.64	0 to 20	25 to 55	
5	4.75	0.64	0 to 5	0 to 10	

Sl. No.	Test Conducted	Identification mm	Results %	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	20	7.61	Not specified
2	Elongation Index (%)	20	8.87	Not specified
3	Crushing Value (%)	20	23.51	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

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Report No. : KTH/C.AGG/0172-0274/2014-2015 **Date: 07.04.2014**

TEST REPORT ON STEEL BARS

Name of the Customer* : **The Assistant Executive Engineer,**
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Providing BS slab drain & Metalling in Chinnamma layout.

Name of Contractor* : Mr. B.T. Ravikumar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 03.04.2014.

Nature of Sample* : Reinforcement steel – 10mm, 12mm & 16mm.

Technical Reference : Tensile IS: 1786 – 2008 & IS: 1608–1995 (Reaffirmed–2000)
Bend & Re-bend IS: 1786 – 2008 & IS: 1599 - 1985 (Reaffirmed–2000)

Grade of Steel* : Fe-500.

TENSILE TEST:

Dia (mm)	10	12	16	Limits as per IS : 1786-2008, Gr. Fe 500
Weight / unit length (kg/m)	0.564	0.864	1.539	10mm – 0.574 Min 12mm – 0.844 Min 16mm – 1.501 Min
Yield Stress (N/mm^2)	496.82	530.79	537.42	500 Min
Tensile Strength (N/mm^2)	560.51	583.86	656.85	8% More than actual 0.2% proof stress but not less than 545 N/mm^2
% Elongation (on 5.65 $\sqrt{A}$G.L)	24.0	21.6	20.0	12.0 Min.

BEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	10	4 dia	No cracks observed. Passes the test.
2.	12	4 dia	No cracks observed. Passes the test.
3.	16	4 dia	No cracks observed. Passes the test.

REBEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	10	5 dia	No cracks observed. Passes the test
2.	12	7 dia	No cracks observed. Passes the test.
3.	16	7 dia	No cracks observed. Passes the test.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

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Report No. : KTH/G-II.AGG/018-0029/2014-2015 **Date: 07.04.2014**

TEST REPORT ON GRADE II AGGREGATE
(Coarse Aggregate)

Name of the Customer*	:	**The Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Name of the Project*	:	Providing BS slab drain & Metalling in Chinnamma layout.
Name of Contractor*	:	Mr. B.T. Ravikumar, Bangalore.
Source of Sample	:	Supplied by the Customer.
Sample Received on	:	03.07.2014.
Technical Reference	:	IS : 2386 (Part I to VIII)– 1963 (Reaffirmed-2002) and MORT&H-Specification for Road and Bridge work – 4th Revision 2001.

Sieve Analysis of Coarse Aggregate - 63mm to 45mm (Grade II)

Sl. No	Sieve size mm	% Passing	Specification as per MORT&H (Section 400, Table 400-6,7) % by wt. passing
1	90	100	100
2	63	92.1	90-100
3	53	51.3	25-75
4	45	8	0-15
5	22.4	-	0-5

* As furnished by the customer.

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
TECHNICAL MANAGER

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Report No. : KTH/AGG/0018-0028/2014-2015 **Date: 07.04.2014**

TEST REPORT ON GRADE III AGGREGATE
(Coarse Aggregate)

Name of the Customer*	:	**The Technical Manager - West,** Shettyhalli Sub Division, BBMP, Bangalore.
Name of the Project*	:	Providing BS slab drain & Metalling in Chinnamma layout.
Name of Contractor*	:	Mr. B.T. Ravikumar, Bangalore.
Source of Sample	:	Supplied by the Customer.
Sample Received on	:	03.04.2014.
Technical Reference	:	IS : 2386 (Part I to VIII)– 1963 (Reaffirmed-2002) and MORT&H-Specification for Road and Bridge work – 4th Revision 2001.

Sieve Analysis of Coarse Aggregate - 53mm to 22.4mm (Grade III)

Sl. No	Sieve size mm	% Passing	Specification as per MORT&H (Section 400, Table 400-6,7) % by wt. passing
1	63	100	100
2	53	95.7	95-100
3	45	69.2	65-90
4	22.4	5.6	0-10
5	11.2	-	0-5

* As furnished by the customer.

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
TECHNICAL MANAGER

AE(2)

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